Proceedings (Earth and Planetary Sciences)

Volume 98, 1989

SUBJECT INDEX

Active phase
Latent and sensible heat fluxes under active and weak phases of the summer monsoon of 1986 213
Active tectonics
Active tectonics of the Himalaya 71
Anisotropy parameters
Effect of filtering on drift and anisotropy parameters determined by full correlation analysis 327
Anomalous crust
Anomalous crustal structure beneath the Bay of Bengal and passive oceanic sedimentary basins 25
Arabian Sea
Latent and sensible heat fluxes under active and weak phases of the summer monsoon of 1986 213

Banded iron formations
Mineralogy and chemistry of banded iron formations (BIF) of Tiruvannamalai area, Tamil Nadu 167
Bay of Bengal
Anomalous crustal structure beneath the Bay of Bengal and passive oceanic sedimentary basins 25

Calangute-Candolim beach
Wave-induced nearshore circulation along the Calangute-Candolim beach, Goa, west coast of India 265
Canonical
Canonical sound speed profile for the Central Bay of Bengal 255
Continental collision
Active tectonics of the Himalaya 71
Cyclone track
Cyclone track prediction using INSAT data 353

Deccan volcanic province
High velocity anomaly beneath the Deccan volcanic province: Evidence from seismic tomography 31
Deep structure
High velocity anomaly beneath the Deccan volcanic province: Evidence from seismic tomography 31
Deflection of the vertical
A preliminary tectonic fabric chart of the Indian Ocean 7
Depositional environment
Holocene marine transgression as interpreted from bathymetry and sand grain size parameters off Gopalpur 173
Deterministic chaos
Phase space analysis of Indian summer monsoon rainfall over subdivisions 207
Diffusion coefficients
Diffusion characteristics of the Kakinada Bay for effluent assessment 237
Drift
Effect of filtering on drift and anisotropy parameters determined by full correlation analysis 327

Earthquake prediction
On self-similarity of premonitory patterns in the regions of natural and induced seismicity 309
Earthquakes
Rupture zones of great earthquakes in the Himalayan region 61
Active tectonics of the Himalaya 71
Effective rainfall
Upland erosion in a mixed pine forest ecosystem 133
Effective shear stress
Upland erosion in a mixed pine forest ecosystem 133
El Nino
Relationship between the southern oscillation/El Nino and rainfall in some tropical and midlatitude regions 223

Filtering
Effect of filtering on drift and anisotropy parameters determined by full correlation analysis 327
Flow erosion
Upland erosion in a mixed pine forest ecosystem 133
Flute instability
Generation of low-frequency oscillations in the subsolar venus ionopause 297
Focal mechanisms
New seismological results on the tectonics of the Garhwal Himalaya 91

Forecast
Cyclone track prediction using INSAT data 353
Full correlation analysis
Effect of filtering on drift and anisotropy parameters determined by full correlation analysis 327

GEOSAT altimeter
A preliminary tectonic fabric chart of the Indian Ocean 7
Gamma-ray survey
Occurrence of thorite and radioactive zircon in syenite pegmatite, North of Ashwaraopet, Khammam district, Andhra Pradesh, India 183
Garhwal Himalaya
New seismological results on the tectonics of the Garhwal Himalaya 91
Geochemistry
Anomalous SO_4-Cl groundwater in the coastal aquifer, Kerala 287
Geoelectrical structure
Anomalous geomagnetic variations and possible causative structures along foothills of Himachal Pradesh-Kumaun-Himalaya 319
Geomagnetic induction
Anomalous geomagnetic variations and possible causative structures along foothills of Himachal Pradesh-Kumaun-Himalaya 319
Geomagnetic variation
Anomalous geomagnetic variations and possible causative structures along foothills of Himachal Pradesh-Kumaun-Himalaya 319
Grain size statistics
Holocene marine transgression as interpreted from bathymetry and sand grain size parameters off Gopalpur 173
Granulites
Mineralogy and chemistry of banded iron formations (BIF) of Tiruvannamalai area, Tamil Nadu 167
Ground motion recording
The importance of strong motion seismology in India 125

Harmonic analysis
Harmonic analysis of summer mean wind at 200 mb level during contrasting monsoon years over India 365
High velocity anomaly
High velocity anomaly beneath the Deccan volcanic province: Evidence from seismic tomography 31
Himalaya
On intermediate-term prediction of strong earthquakes in the Himalayan arc region using pattern recognition algorithm M8 111
Rupture zones of great earthquakes in the Himalayan region 61
Himalayan frontal fault (HFF)
Anomalous geomagnetic variations and possible causative structures along foothills of Himachal Pradesh-Kumaun-Himalaya 319
Himalayan mountains
Active tectonics of the Himalaya 71
Holocene transgression
Holocene marine transgression as interpreted from bathymetry and sand grain size parameters off Gopalpur 173
Horizontal diffusion
Diffusion characteristics of the Kakinada Bay for effluent assessment 237

INSAT IR data
Cyclone track prediction using INSAT data 353
Indian Ocean
A preliminary tectonic fabric chart of the Indian Ocean 7
Innershelf sands
Holocene marine transgression as interpreted from bathymetry and sand grain size parameters off Gopalpur 173
Interchange instability
Generation of low-frequency oscillations in the subsolar venus ionopause 297
Intermediate term prediction
On intermediate-term prediction of strong earthquakes in the Himalayan arc region using pattern recognition algorithm M8 111
Inversion convection
Stratification and convection over Arabian Sea during monsoon 1979 from satellite data 339
Inversion model
Magnetotelluric survey across Singhbhum granite batholith 147
Ionopause instability
Generation of low-frequency oscillations in the subsolar venus ionopause 297

Kakinada Bay
Diffusion characteristics of the Kakinada Bay for effluent assessment 237

Latent heat
Latent and sensible heat fluxes under active and weak phases of the summer monsoon of 1986 213
Laterite
Anomalous SO_4-Cl groundwater in the coastal aquifer, Kerala 287
Laterite-water interaction
Anomalous SO_4-Cl groundwater in the coastal aquifer, Kerala 287
Local earthquakes
New seismological results on the tectonics of the Garhwal Himalaya 91

M8 algorithm
On intermediate-term prediction of strong earthquakes in the Himalayan arc region using pattern recognition algorithm M8 111
Magnetite-quartzite
Mineralogy and chemistry of banded iron formations (BIF) of Tiruvannamalai area, Tamil Nadu 167
Magnetometer array
Magnetotelluric survey across Singhbhum granite batholith 147
Magnetometer array study
Anomalous geomagnetic variations and possible causative structures along foothills of Himachal Pradesh-Kumaun-Himalaya 319
Magnetotelluric survey
Magnetotelluric survey across Singhbhum granite batholith 147
Main boundary thrust
Active tectonics of the Himalaya 71
Meridional transport
Harmonic analysis of summer mean wind at 200 mb level during contrasting monsoon years over India 365
Mid-tropospheric streamlines
Observations of mid-tropospheric circulation from water vapour radiances of polar orbiting satellites 247
Middle atmosphere
Solar activity and radiative flux divergence in the tropical middle atmosphere 279
Mineralogy
Mineralogy and chemistry of banded iron formations (BIF) of Tiruvannamalai area, Tamil Nadu 167
Monsoon
Stratification and convection over Arabian Sea during monsoon 1979 from satellite data 339
Monsoon variability
Phase space analysis of Indian summer monsoon rainfall over subdivisions 207

Nearshore circulation
Wave-induced nearshore circulation along the Calangute-Candolim beach, Goa, west coast of India 265
Net flux divergence
Solar activity and radiative flux divergence in the tropical middle atmosphere 279
Normal mode initialization
Simulation of a winter circulation over India using a global spectral model 189

Pattern recognition
On self-similarity of premonitory patterns in the regions of natural and induced seismicity 309
Pattern recognition algorithm
On intermediate-term prediction of strong earthquakes in the Himalayan arc region using pattern recognition algorithm M8 111
Perturbation coefficient
Canonical sound speed profile for the Central Bay of Bengal 255
Polar orbiting satellite
Observations of mid-tropospheric circulation from water vapour radiances of polar orbiting satellites 247

Radiation stress
Wave-induced nearshore circulation along the Calangute-Candolim beach, Goa, west coast of India 265
Rainfall correlations
Relationship between the southern oscillation/El Nino and rainfall in some tropical and midlatitude regions 223
Reservoir induced seismicity
On self-similarity of premonitory patterns in the regions of natural and induced seismicity 309
Rhodamine-B
Diffusion characteristics of the Kakinada Bay for effluent assessment 237
Rip current
Wave-induced nearshore circulation along the Calangute-Candolim beach, Goa, west coast of India 265
Rupture zone
Rupture zones of great earthquakes in the Himalayan region 61

Saturation overland flow
Upland erosion in a mixed pine forest ecosystem 133
Sea-aquifer model
Anomalous SO_4-Cl groundwater in the coastal aquifer, Kerala 287
Sedimentary basin
Anomalous crustal structure beneath the Bay of Bengal and passive oceanic sedimentary basins 25
Seismic tomography
High velocity anomaly beneath the Deccan volcanic province: Evidence from seismic tomography 31
Seismicity
On intermediate-term prediction of strong earthquakes in the Himalayan arc region using pattern recognition algorithm M8 111
The importance of strong motion seismology in India 125
Seismo-tectonic model
New seismological results on the tectonics of the Garhwal Himalaya 91
Semi-implicit scheme
Simulation of a winter circulation over India using a global spectral model 189

Sensible heat
Latent and sensible heat fluxes under active and weak phases of the summer monsoon of 1986 213
Singhbhum granite batholith
Magnetotelluric survey across Singhbhum granite batholith 147
Solar activity
Solar activity and radiative flux divergence in the tropical middle atmosphere 279
Sound channel
Canonical sound speed profile for the Central Bay of Bengal 255
Southern oscillation
Relationship between the southern oscillation/El Nino and rainfall in some tropical and midlatitude regions 223
Strange attractors
Phase space analysis of Indian summer monsoon rainfall over subdivisions 207
Stratification scale
Canonical sound speed profile for the Central Bay of Bengal 255
Stream function
Wave-induced nearshore circulation along the Calangute-Candolim beach, Goa, west coast of India 265
Strong motion instrumentation
The importance of strong motion seismology in India 125
Strong motion seismology
The importance of strong motion seismology in India 125
Subdivisional rainfall
Phase space analysis of Indian summer monsoon rainfall over subdivisions 207
Summer mean wind
Harmonic analysis of summer mean wind at 200 mb level during contrasting monsoon years over India 365
Summer monsoon
Latent and sensible heat fluxes under active and weak phases of the summer monsoon of 1986 213
Syenite pegmatite
Occurrence of thorite and radioactive zircon in syenite pegmatite, North of Ashwaraopet, Khammam district, Andhra Pradesh, India 183

TOVS
Stratification and convection over Arabian Sea during monsoon 1979 from satellite data 339
Tectonic fabric chart
A preliminary tectonic fabric chart of the Indian Ocean 7
Tectonic setting
Active tectonics of the Himalaya 71
Teleseismic residuals
High velocity anomaly beneath the Deccan volcanic province: Evidence from seismic tomography 31
Tethyan slab
Active tectonics of the Himalaya 71
Thorite
Occurrence of thorite and radioactive zircon in syenite pegmatite, North of Ashwaraopet, Khammam district, Andhra Pradesh, India 183
Three-dimensional inversion
High velocity anomaly beneath the Deccan volcanic province: Evidence from seismic tomography 31
Times of increased probabilities
On intermediate-term prediction of strong earthquakes in the Himalayan arc region using pattern recognition algorithm M8 111
Tomography
Canonical sound speed profile for the Central Bay of Bengal 255
Transform method
Simulation of a winter circulation over India using a global spectral model 189
Triangular truncation
Simulation of a winter circulation over India using a global spectral model 189
Tropical rainfall
Relationship between the southern oscillation/El Nino and rainfall in some tropical and midlatitude regions 223

Underplating
Anomalous crustal structure beneath the Bay of Bengal and passive oceanic sedimentary basins 25

Venus ionopause oscillations
Generation of low-frequency oscillations in the subsolar venus ionopause 297

Water vapour radiances
Observations of mid-tropospheric circulation from water vapour radiances of polar orbiting satellites 247
Weak phase
Latent and sensible heat fluxes under active and weak phases of the summer monsoon of 1986 213
Western disturbance
Simulation of a winter circulation over India using a global spectral model 189

Zircon
Occurrence of thorite and radioactive zircon in syenite pegmatite, North of Ashwaraopet, Khammam district, Andhra Pradesh, India 183

AUTHOR INDEX

Ali M M
see Narayanan M S 247

Arora B R
see Mahashabde M V 319

Asthana V
see Unnikrishnan A S 237

Awade S T
see Bawiskar S M 365

Babu V Ramesh
see Vinayachandran P N 213

Bawiskar S M
Harmonic analysis of summer mean wind at 200 mb level during contrasting monsoon years over India 365

Bhatia S C
On intermediate-term prediction of strong earthquakes in the Himalayan arc region using pattern recognition algorithm M8 111

Bolt Bruce A
The importance of strong motion seismology in India 125

Brune James N
Editorial: A perspective on seismology in India1
Anomalous crustal structure beneath the Bay of Bengal and passive oceanic sedimentary basins 25
see Bolt Bruce A 125

Chakrapani B
see Dash S K 189

Chalam S V
see Bhatia S C 111

Chander Ramesh
see Khattri K N 91

Chandra H
Effect of filtering on drift and anisotropy parameters determined by full correlation analysis 327

Chandrasekharam D
Anomalous SO_4-Cl groundwater in the coastal aquifer, Kerala 287

Chattopadhyay A
see Roy K K 147

Correia J F
see Sharma K D 133

Dash S K
Simulation of a winter circulation over India using a global spectral model 189

Figueiredo Rui J P De
see Ramana Murty T V 255

Gaur V K
see Iyer H M 31
see Khattri K N 91
see Bhatia S C 111
see Kossobokov V G 309

Heblekar A K
see Krishna Kumar V 265

Iyer H M
High velocity anomaly beneath the Deccan volcanic province: Evidence from seismic tomography 31

Joshi P C
see Narayanan M S 247

Kane R P
Relationship between the southern oscillation/El Nino and rainfall in some tropical and midlatitude regions 223

Keilis-Borok V I
see Bhatia S C 91

Khattri K N
New seismological results on the tectonics of the Garhwal Himalaya 91

Kishtawal C M
see Pal P K 353

Kosobokov V G
see Bhatia S C 111
On self-similarity of premonitory patterns in the regions of natural and induced seismicity 309

Krishna Kumar V
Wave-induced nearshore circulation along the Calangute-Candolim beach, Goa, west coast of India 265

Kumar Sushil
see Khattri K N 91

Mahashabde M V
Anomalous geomagnetic variations and possible causative structures along foothills of Himachal Pradesh-Kumaun-Himalaya 319

Mohanakumar K
Solar activity and radiative flux divergence in the tropical middle atmosphere 279

Molnar Peter
Rupture zones of great earthquakes in the Himalayan region 61
Murty C S
see Krishna Kumar V 265

Narayanan M S
Observations of mid-tropospheric circulation from water vapour radiances of polar orbiting satellites 247
see Pal P K 353
Stratification and convection over Arabian Sea during monsoon 1979 from satellite data 339
Ni James F
Active tectonics of the Himalaya 71

Pal P K
see Narayanan M S 247
Cyclone track prediction using INSAT data 353
Pandey M R
see Molnar Peter 61
Prasanna Kumar S
see Ramana Murty T V 255
Priestley Keith
see Brune James N 25

Rai S S
see Iyer H M 31
Rajamanickam G V
see Rao K Mohana 173
Rajkumar G
see Pal P K 353
Ramana Murty T V
Canonical sound speed profile for the Central Bay of Bengal 255
Ramesh D S
see Iyer H M 31
Rao B M
see Narayanan M S 339
see Pal P K 353
Rao C K
see Roy K K 147
Rao C V R
see Iyer H M 31
Rao K Mohana
Holocene marine transgression as interpreted from bathymetry and sand grain size parameters off Gopalpur 173
Rao T C S
see Rao K Mohana 173
Rastogi B K
see Kossobokov V G 309
Roy Gautam
see Surya Prakash Rao K 173
Roy K K
Magnetotelluric survey across Singhbhum granite batholith 147

Royer Jean-Yves
A preliminary tectonic fabric chart of the Indian Ocean 7

Sadhuram Y
see Vinayachandran P N 213
Sandwell David T
see Royer Jean-Yves 7
Sarkar I
see Khattri K N 91
Sashidhar A N
see Subba Reddy N 167
Sastry J S
see Ramana Murty T V 255
Sastry R S N
see Surya Prakash Rao 183
Satyan V
Phase space analysis of Indian summer monsoon rainfall over subdivisions 207
Sclater John G
see Royer Jean-Yves 7
Sharma K D
Upland erosion in a mixed pine forest ecosystem 133
Simon Baby
see Narayanan M S 247
Singh R N
Generation of low-frequency oscillations in the subsolar venus ionopause 297
Singh S S
see Bawiskar S M 365
Somayajulu Y K
see Ramana Murty T V 255
Srinagesh D
see Iyer H M 31
Subba Reddy N
Mineralogy and chemistry of banded iron formations (BIF) of Tiruvannamalai area, Tamil Nadu 167
Surya Prakash Rao K
Occurrence of thorite and radioactive zircon in syenite pegmatite, North of Ashwaraopet, Khammam district, Andhra Pradesh, India 183
Suryaprakasam K
see Iyer H M 31

Unnikrishnan A S
Diffusion characteristics of the Kakinada Bay for effluent assessment 237
Upadhyay Hari Om
see Singh R N 297

Vinayachandran P N
Latent and sensible heat fluxes under active and weak phases of the summer monsoon of 1986 213

Waghmare S Y
see Mahashabde M V 319